

**FIG. 1**

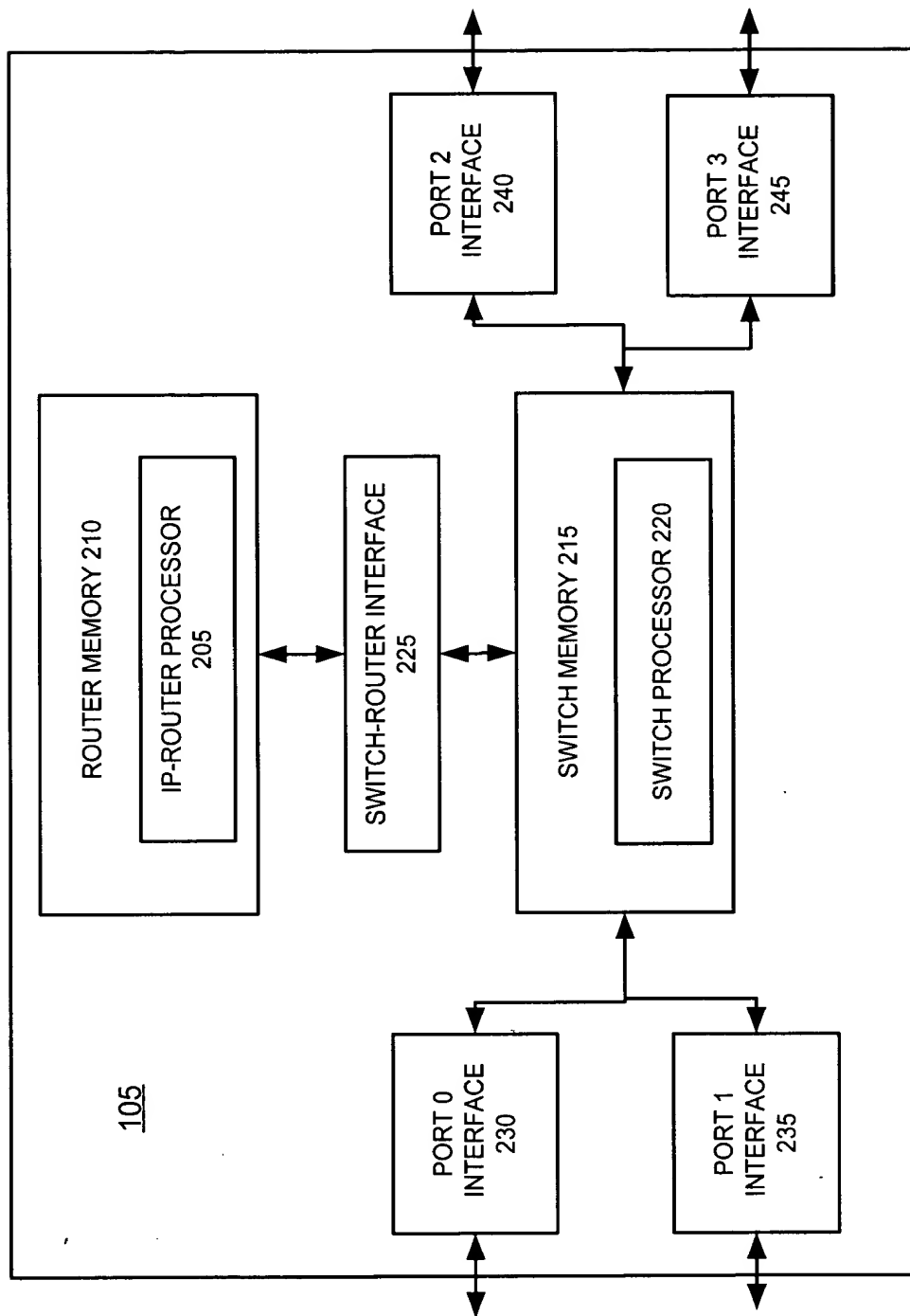
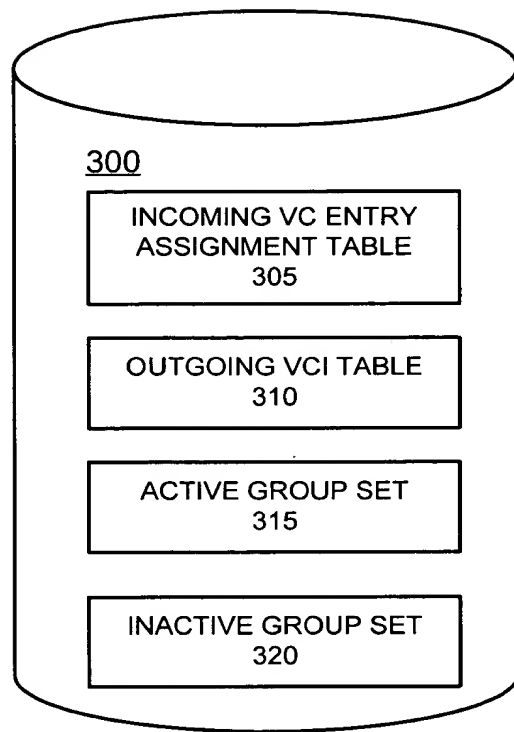


FIG. 2



**FIG. 3**

### SWITCH VC TABLE 400

VC ENTRY 405	ROUTER OUTPUT PORT ( $PN_{OUT}$ ) 410	$VCI_{out}$ 415	
1	IP-ROUTER	IP #	default
2	Port 2	48	VC link
3	Port 3	76	VC link
4	UNASSIGNED	0	not assigned
5	Port 3	113	VC link
6	IP-ROUTER	IP #	inactive dest

FIG. 4

305

### INCOMING VC ENTRY ASSIGNMENT TABLE

DESTINATION ROUTER 505	DESTINATION STATUS 510	INPUT PORT (VC TABLE) # 515	ASSIGNED VC ENTRY 520	NEGOTIATION STATUS 525
R1	ACTIVE	0	68	ASSIGNMENT PROPOSED
R1	ACTIVE	1	27	READY
R1	OPEN PORT	2	0	NONE
R1	ACTIVE	3	104	READY
R2	INACTIVE	0	33	DROP PROPOSED
R2	INACTIVE	1	17	READY

FIG. 5

## FIG. 6

ENTRY	DESTINATION ROUTER	DESTINATION STATUS	OUTPUT PORT	NEIGHBOR'S VCI	NEGOTIATION STATUS
	605	610	615	620	625
1	ANY	NOT ACTIVE	0	1	DEFAULT
2	ANY	NOT ACTIVE	1	1	DEFAULT
3	ANY	NOT ACTIVE	2	1	DEFAULT
4	ANY	NOT ACTIVE	3	1	DEFAULT
5	R1	ACTIVE	0	0	ASSIGNMENT REQUESTED
6	R1	ACTIVE	1	112	READY
7	R1	OPEN PORT	2	0	NONE
8	R1	ACTIVE	3	74	READY
9	R2	INACTIVE	0	89	ACK'ING DROP REQUEST
10	R2	INACTIVE	1	120	READY
11	R2	OPEN PORT	2	0	NONE
12	R2	INACTIVE	3	0	DROPPED
13	R4	ACTIVE	0	15	READY
14	R4	ACTIVE	1	77	READY

700

IP FORWARDING TABLE

DESTINATION ROUTER 705	OUTGOING VCI TABLE ENTRY 710	TIME STAMP 715
R1	6	6:22:35
R3	14	6:22:35
R4	17	4:32:11
R8	22	6:22:35
R10	28	1:18:56

**FIG. 7**

800

FLOOD TAG PACKET

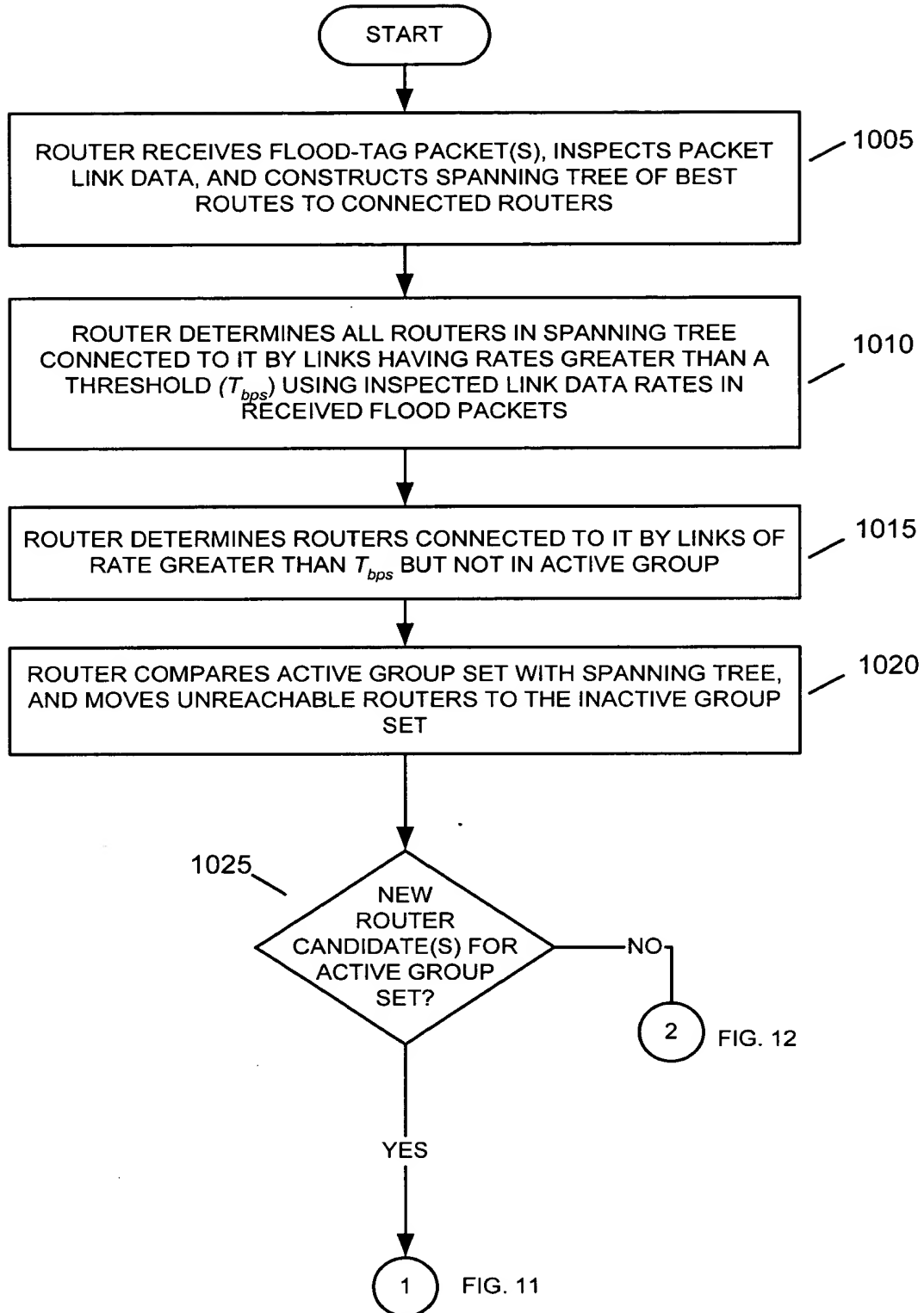
ROUTER # 805		ROUTER_NUM	
FLOOD TAG SEQ. # 810		SEQ_NUM	
ACTIVE LINKS 815	TO R1	TO R4	
METRICS 820	M <sub>1</sub>	M <sub>2</sub>	
LINK DATA RATE 825	X bps	Y bps	
TAG-ACK SEQ. #S 830	NEIGHBOR-TAG SEQ_NUM # 835		
	FLOOD-TAG SEQ_NUM # 840		

**FIG. 8**

**900**  
**NEIGHBOR-TAG PACKET**

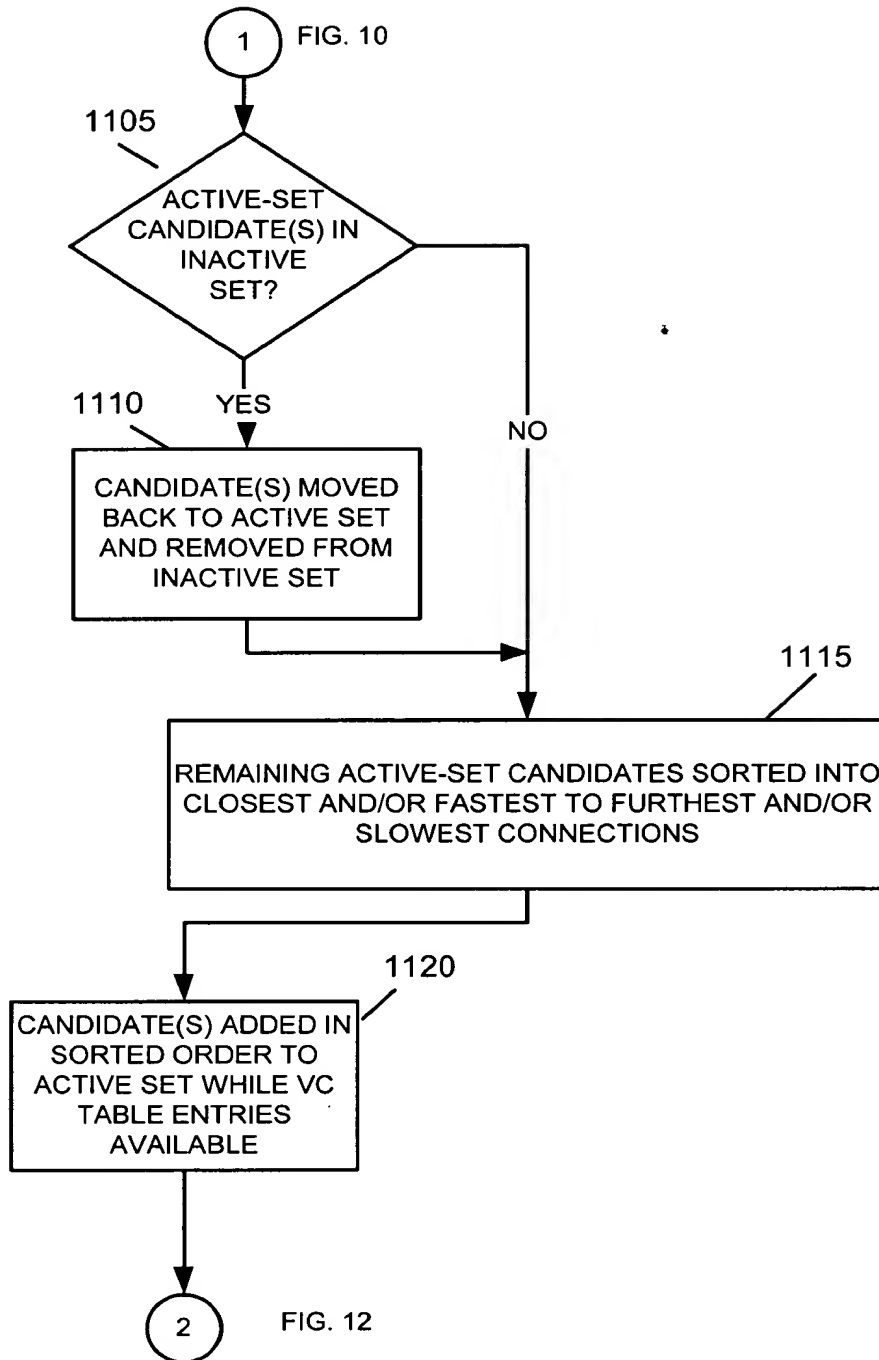
ROUTER # 905      ROUTER_NUM		
NEIGHBOR TAG SEQ. #      SEQ_NUM 910		
LINKS 915	TO R1	TO R2
VCI's 920	68	33
DESTINATION STATUS 925	ACTIVE	IN- ACTIVE
NEGOTIATION STATUS 930	ASSIGNMENT PROPOSED	DROP PROPOSED
TAG-ACK SEQ. #S 935	NEIGHBOR-TAG SEQ_NUM # 940	
	FLOOD-TAG SEQ_NUM # 945	

**FIG. 9**

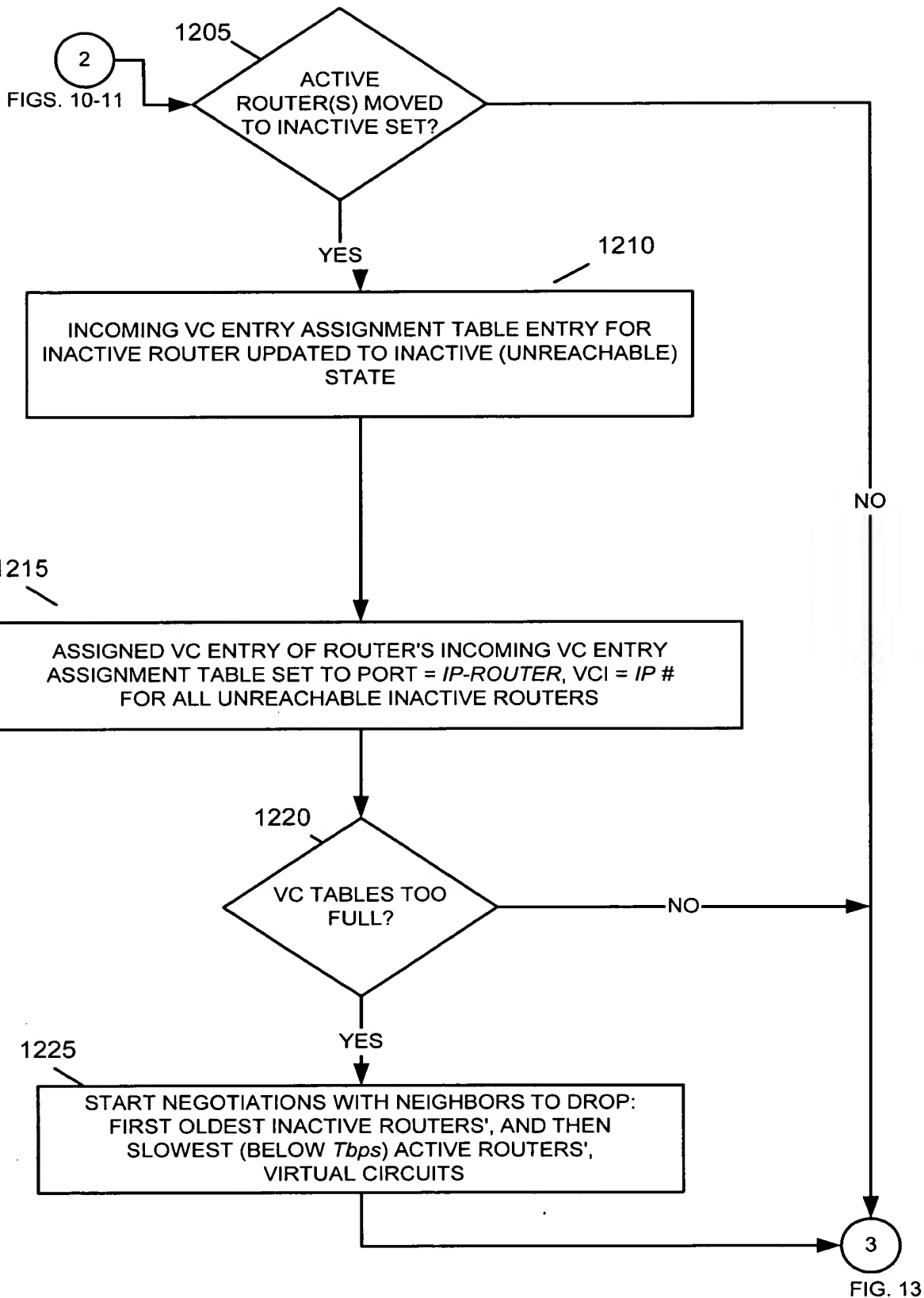


**FIG. 10**





**FIG. 11**



**FIG. 12**

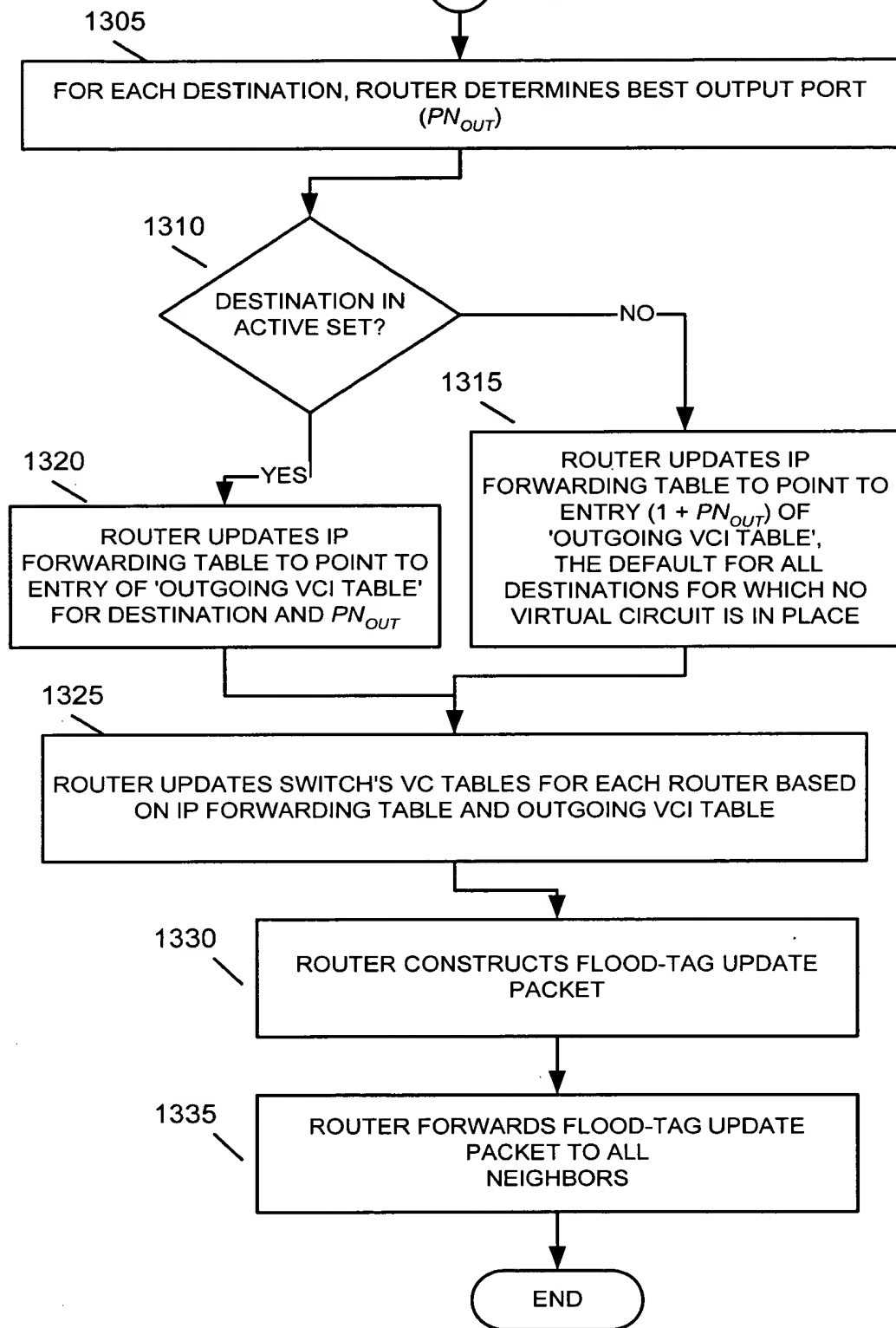
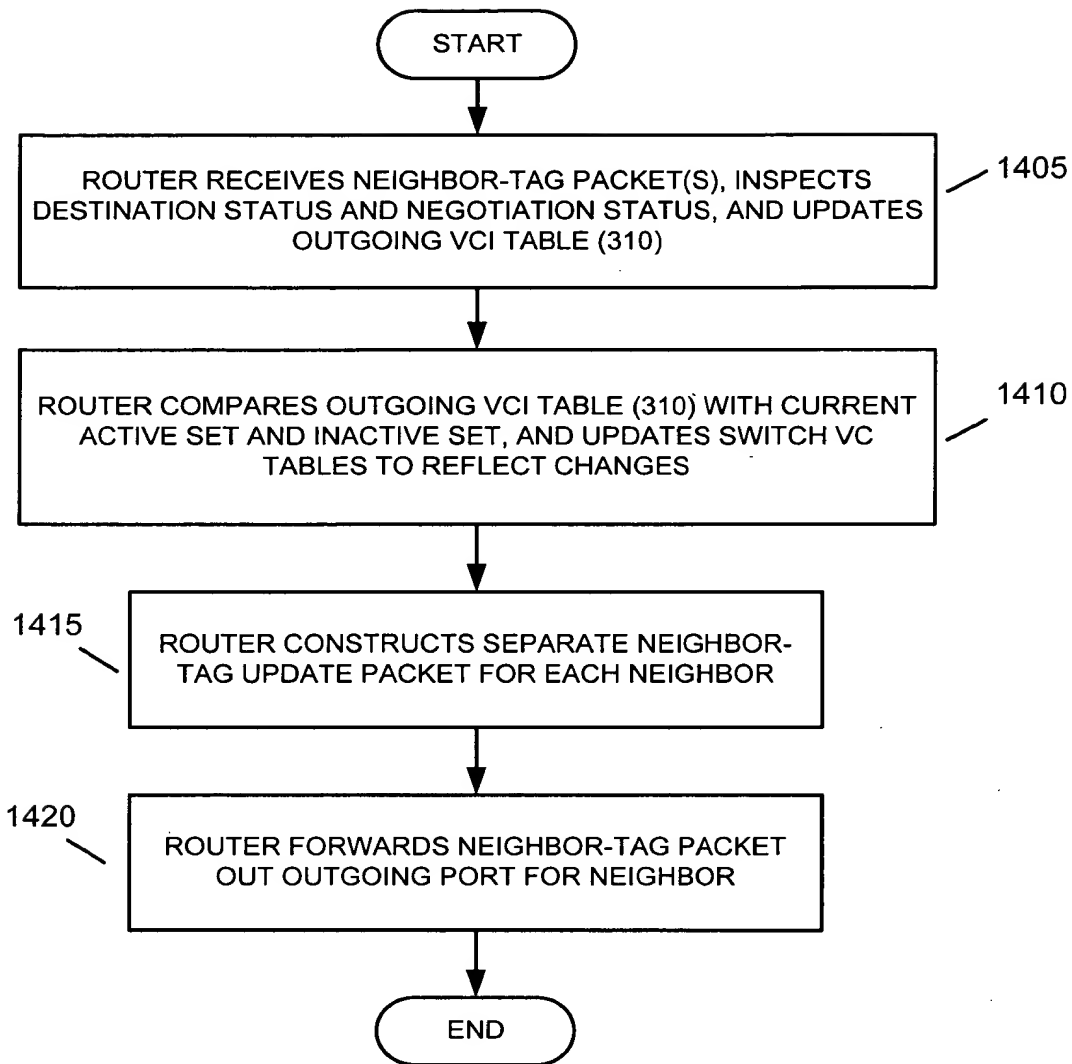
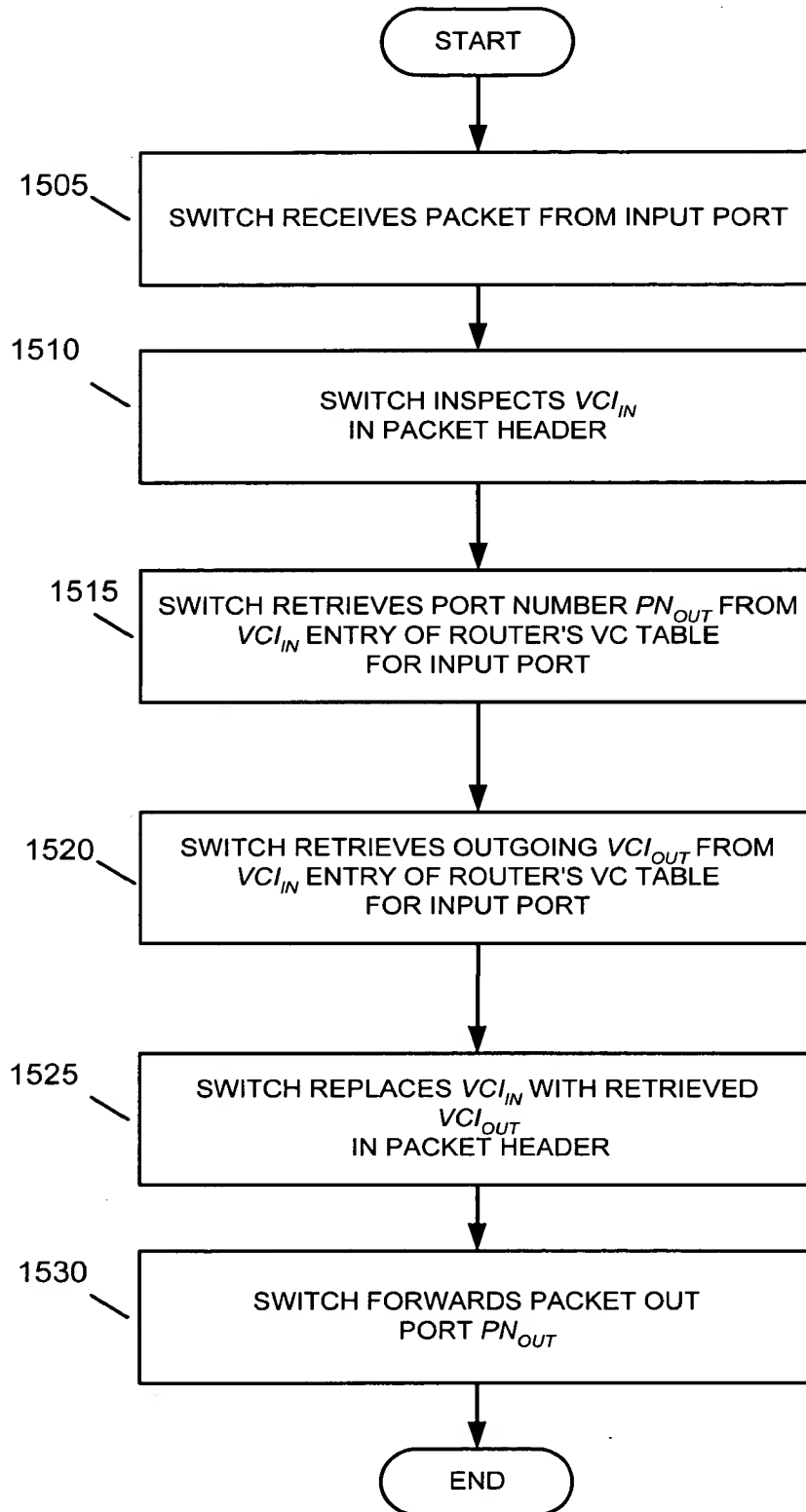


FIG. 13



**FIG. 14**



**FIG. 15**